HARMONY GROVE VILLAGE SOUTH

APPENDIX N

PRIORITY DEVELOPMENT PROJECT STORM WATER QUALITY MANAGEMENT PLAN

to the

DRAFT ENVIRONMENTAL IMPACT REPORT

PDS2015-GPA-15-002; PDS2015-SP-15-002 PDS2015-TM-5600; PDS2015-REZ-15-003 PDS2015-MUP-15-008; PDS2015-ER-15-08-006

APRIL 2017

Prepared for:
COUNTY OF SAN DIEGO
PLANNING & DEVELOPMENT SERVICES
5510 OVERLAND AVENUE, SUITE 310
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County of San Diego PRIORITY DEVELOPMENT PROJECT (PDP) SWQMP

Harmony Grove Village South PDS2015-TM-5600, PDS2015-SP15-002, PDS2015-GPA-15-002

SOUTH OF HARMONY GROVE ROAD AND EAST OF COUNTRY CLUB DRIVE ESCONDIDO, CA 92029

> ASSESSOR'S PARCEL NUMBER(S): 235-011-06-00; 238-021-08-00; 238-021-09-00; 238-021-10-00

> > ENGINEER OF WORK:

DEBBY SUE REECE, RCE No. C56148

PREPARED FOR:

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PROJECT DESIGN CONSULTANTS

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DATE OF SWQMP. APRIL 11, 2017

PLANS PREPARED BY:

SWQMP APPROVED BY:

PROJECT DESIGN CONSULTANTS

APPROVAL DATE:



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Acronyms

ACP Alternative Compliance Project APN Assessor's Parcel Number BMP Best Management Practice

BMP DM Best Management Practice Design Manual HMP Hydromodification Management Plan

HSG Hydrologic Soil Group

MS4 Municipal Separate Storm Sewer System

N/A Not Applicable

NRCS Natural Resources Conservation Service

PDCI Private Development Construction Inspection Section

PDP Priority Development Project

PDS Planning and Development Services

PE Professional Engineer

RPO Resource Protection Ordinance

SC Source Control SD Site Design

SDRWQCB San Diego Regional Water Quality Control Board

SIC Standard Industrial Classification
SWQMP Storm Water Quality Management Plan
WMAA Watershed Management Area Analysis
WPO Watershed Protection Ordinance

WPO Watershed Protection Ordinance WQIP Water Quality Improvement Plan

PDP SWQMP Preparer's Certification Page

Project Name: HARMONY GROVE VILLAGE SOUTH

Permit Application Number: PDS2015-TM-5600, PDS2015-SP15-002, PDS2015-GPA-15-002

PREPARER'S CERTIFICATION

I hereby declare that I am the Engineer in Responsible Charge of design of storm water best management practices (BMPs) for this project, and that I have exercised responsible charge over the design of the BMPs as defined in Section 6703 of the Business and Professions Code, and that the design is consistent with the PDP requirements of the County of San Diego BMP Design Manual, which is a design manual for compliance with local County of San Diego Watershed Protection Ordinance (Sections 67.801 et seq.) and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100) requirements for storm water management.

I have read and understand that the County of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the BMP Design Manual. I certify that this PDP SWQMP has been completed to the best of my ability and accurately reflects the project being proposed and the applicable BMPs proposed to minimize the potentially negative impacts of this project's land development activities on water quality. I understand and acknowledge that the plan check review of this PDP SWQMP by County staff is confined to a review and does not relieve me, as the Engineer in Responsible Charge of design of storm water BMPs for this project, of my responsibilities for project design.

Engineer of Work's Signature, PE Number	er & Expiration Date	_
Debby Reece Print Name		-
Project Design Consultants Company		-
4 10 17 Date	Engineer's Seal:	OR OF ESSIONAL CONTROL OF SERVICE OF CALIFORNIA CONTROL OF CALIFOR

Submittal Record

Use this Table to keep a record of submittals of this PDP SWQMP. Each time the PDP SWQMP is re-submitted, provide the date and status of the project. In column 4 summarize the changes that have been made or indicate if response to plancheck comments is included. When applicable, insert response to plancheck comments behind this page.

Preliminary Design / Planning / CEQA

Submittal Number	Date	Summary of Changes
1	2/17/2016	Initial Submittal
2	12/30/2016	Update to County Template
3	4/11/2017	Updated DMA exhibit for minor comments

Final Design

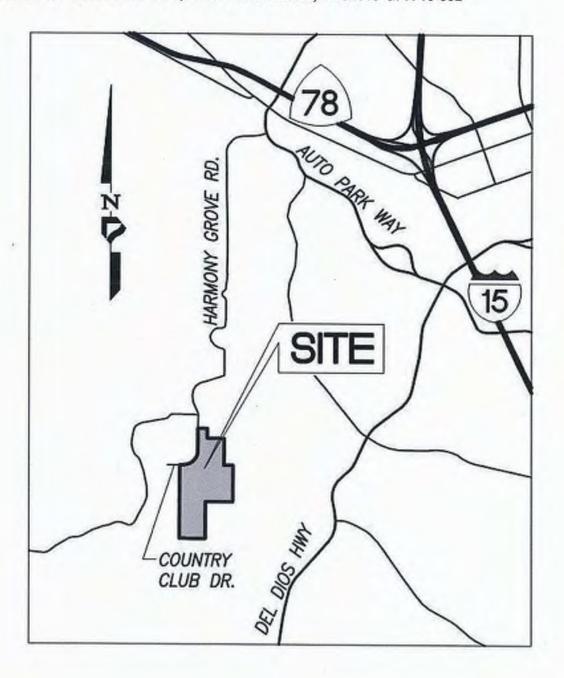
Submittal	Date	Summary of Changes
Number		,
1		
2		
3		
4		

Plan Changes

Submittal Number	Date	Summary of Changes
1		Initial Submittal
2		
3		
4		

Project Vicinity Map

Project Name: Harmony Grove Village South Record ID: PDS2015-TM-5600, PDS2015-SP15-002, PDS2015-GPA-15-002



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Step 1: Project type determination (Standard or Priority Development Project)

		of another Priority Development Project (PDP)? MP is required. Go to Step 2.	(□ Yes ⊠ No	
		ect one): New Development Redevelopment		
The total p	ropose	d newly created or replaced impervious area is:	1,653,900 ft ²	
The total e	xisting	(pre-project) impervious area is:	2,614 ft ²	
The total a	rea dist	turbed by the project is:	4,839,516 ft ²	
must be o	lan of d stained	sturbed by the project is 1 acre (43,560 sq. ft.) or more OR levelopment disturbing 1 acre or more, a Waste Discharge from the State Water Resources Control Board. vided later.	the project is part of a larger r Identification (WDID) number	
Is the proj	act in ar	ny of the following categories, (a) through (f)?2		
Yes No ⊠ □	(a)	New development projects that create 10,000 square fee ³ (collectively over the entire project site). This includes of mixed-use, and public development projects on public or	ommercial, industrial, residential,	
Yes No		Redevelopment projects that create and/or replace 5,000 square feet or more of impervious surface (collectively over the entire project site on an existing site of 10,000 square feet or more of impervious surfaces). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.		
Yes No	1.0	New and redevelopment projects that create and/or replaimpervious surface (collectively over the entire project sit the following uses: (i) Restaurants. This category is defined as a facility drinks for consumption, including stationary lunch stands selling prepared foods and drinks for immediate Industrial Classification (SIC) code 5812). (ii) Hillside development projects. This category inclinatural slope that is twenty-five percent or greate (iii) Parking lots. This category is defined as a land a parking or storage of motor vehicles used persor commerce. (iv) Streets, roads, highways, freeways, and drivews any paved impervious surface used for the trans motorcycles, and other vehicles.	te), and support one or more of y that sells prepared foods and in counters and refreshment rediate consumption (Standard udes development on any er, area or facility for the temporary hally, for business, or for	

Applicants should note that any development project that will create and/or replace 10,000 square feet or more of impervious surface (collectively over the entire project site) is considered a new development.

For solar energy farm projects, the area of the solar panels does not count toward the total impervious area of the site.

Redevelopment is defined as: The creation and/or replacement of impervious surface on an already developed site. Examples include the expansion of a building footprint, road widening, the addition to or replacement of a structure, and creation or addition of impervious surfaces. Replacement of impervious surfaces includes any activity that is not part of a routine maintenance activity where impervious material(s) are removed, exposing underlying soil during construction. Redevelopment does not include routine maintenance activities, such as trenching and resurfacing associated with utility work; pavement grinding; resurfacing existing roadways; new sidewalks construction; pedestrian ramps; or bike lanes on existing roads; and routine replacement of damaged pavement, such as pothole repair.

Project type determination (continued)

Yes	No	(d)	New or redevelopment projects that create and/or replace 2,500 square feet or more of		
Ø		. ,	impervious surface (collectively over the entire project site), and discharging directly to		
			an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is		
			conveyed overland a distance of 200 feet or less from the project to the ESA, or		
			conveyed in a pipe or open channel any distance as an isolated flow from the project to		
			e ESA (i.e. not commingled with flows from adjacent lands).		
			Note: ESAs are areas that include but are not limited to all Clean Water Act Section		
			303(d) impaired water bodies; areas designated as Areas of Special Biological		
			Significance by the State Water Board and San Diego Water Board; State Water		
			Quality Protected Areas; water bodies designated with the RARE beneficial use by		
			the State Water Board and San Diego Water Board; and any other equivalent		
: 1			environmentally sensitive areas which have been identified by the Copermittees.		
			See BMP Design Manual Section 1,4.2 for additional guidance.		
Yes	No	(e)	New development projects, or redevelopment projects that create and/or replace 5,000		
	Ø		square feet or more of impervious surface, that support one or more of the following		
			uses:		
			(i) Automotive repair shops. This category is defined as a facility that is categorized		
			in any one of the following SIC codes: 5013, 5014, 5541, 7532-7534, or 7536-		
		·	7539.		
			(ii) Retail gasoline outlets (RGOs). This category includes RGOs that meet the		
			following criteria: (a) 5,000 square feet or more or (b) a projected Average Daily		
			Traffic (ADT) of 100 or more vehicles per day.		
Yes	No	(f)	New or redevelopment projects that result in the disturbance of one or more acres of land		
⊠			and are expected to generate pollutants post construction.		
			Note: See BMP Design Manual Section 1.4.2 for additional guidance		
_					
Does	the pro	ject n	neet the definition of one or more of the Priority Development Project categories (a)		
	gh (f) lis				
			ct is <u>not</u> a Priority Development Project (Standard Project).		
⊠ Y6	s – the	proje	ect Is a Priority Development Project (PDP).		
Furthe	r guidar	nce ma	ay be found in Chapter 1 and Table 1-2 of the BMP Design Manual.		
The following is for redevelopment PDPs only:					
Thor	roo of	aviatir	ig (pre-project) impervious area at the project site is: 2,614 ft² (A)		
			s surface created or replaced (B/A)*100: 63,271 % vious surface created or replaced is (select one based on the above calculation):		
			or equal to fifty percent (50%) — only newly created or replaced impervious areas are		
	1020	u idan Seiden	red a PDP and subject to stormwater requirements		
	OR.	ioiuti	en a i an annient to stormwater tedishements		
		ator th	nan fifty percent (50%) - the entire project site is considered a PDP and subject to		
			iter requirements		
	210	111111111111111111111111111111111111111	ner redunerne		

Step 1.1: Storm Water Quality Management Plan requirements

Step	Answer	Progression		
Is the project a Standard Project, Priority Development Project (PDP), or exception to PDP definitions?	☐ Standard Project	Standard Project requirements apply, including Standard Project SWQMP. Complete Standard Project SWQMP.		
To answer this item, complete Step 1 Project Type Determination Checklist on Pages 1 and 2, and see PDP exemption information below.	⊠ PDP	Standard and PDP requirements apply, including PDP SWQMP. Complete PDP SWQMP.		
For further guidance, see Section 1.4 of the BMP Design Manual in its entirety.	□ PDP with ACP	If participating in offsite alternative compliance, complete Step 6.3 and an ACP SWQMP.		
	□ PDP Exemption	Go to Step 1.2 below.		

Step 1.2: Exemption to PDP definitions

i) Designed and constructed to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas; OR ii) Designed and constructed to be hydraulically disconnected from paved streets or roads [i.e., runoff from the new improvement does not drain directly onto paved streets or roads]; OR iii) Designed and constructed with permeable pavements or surfaces in accordance with County of San Diego Guidance on Green Infrastructure;	any additional requirements specific to the type of project. County concurrence with the exemption is required. Provide discussion and list any additional requirements below in this form. Complete Standard Project SWQMP
jects that are only retrofitting or redeveloping existing paved ys, streets or roads that are designed and constructed in ordance with the County of San Diego Guidance on Green astructure.	Complete Green Streets PDP Exempt SWQMP.
1	permeable areas; OR i) Designed and constructed to be hydraulically disconnected from paved streets or roads [i.e., runoff from the new improvement does not drain directly onto paved streets or roads]; OR ii) Designed and constructed with permeable pavements or surfaces in accordance with County of San Diego Guidance on Green Infrastructure; iects that are only retrofitting or redeveloping existing paved ys, streets or roads that are designed and constructed in

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Step 2: Construction Storm Water BMP Checklist

Minimum Required Standard Construction Storm Water BM				
If you answer "Yes" to any of the questions below, your project is subject to Table 1 (Minimum Required Standard Construction Stormwater BMPs). As noted in Table 1 least the minimum number of required BMPs, or as many as are feasible for your p selected, an explanation must be given in the box provided. The following question in determining construction BMP requirements for your project.	, please se roject. If no is are inten	elect at b BMP is ded to aid		
Note: All selected BMPs below must be included on the BMP plan incorporate construction plan sets.	ed into the			
Will there be soil disturbing activities that will result in exposed soil areas? (This includes minor grading and trenching.) Reference Table 1 Items A, B, D, and E Note: Soil disturbances NOT considered significant include, but are not limited to, change in use, mechanical/electrical/plumbing activities, signs, temporary trailers.	⊠Yes	□No		
interior remodeling, and minor tenant improvement.				
Will there be asphalt paving, including patching? Reference Table 1 Items D and F	⊠Yes	□No		
3. Will there be slurries from mortar mixing, coring, or concrete saw cutting? ☐No ☐No ☐No				
Will there be solid wastes from concrete demolition and removal, wall construction, or form work? Reference Table 1 Items D and F	⊠Yes	□No		
5. Will there be stockpiling (soil, compost, asphalt, concrete, solid waste) for over 24 hours? Reference Table 1 Items D and F	⊠Yes	□No		
6. Will there be dewatering operations? Reference Table 1 Items C and D	⊠Yes	□No		
Will there be temporary on-site storage of construction materials, including mortar mix, raw landscaping and soil stabilization materials, treated lumber, rebar, and plated metal fencing materials? Reference Table 1 Items E and F	⊠Yes	□No		
Will trash or solid waste product be generated from this project? Reference Table 1 Item F	⊠Yes	□No		
Will construction equipment be stored on site (e.g.: fuels, oils, trucks, etc.?) Reference Table 1 Item F	⊠Yes	□No		
 Will Portable Sanitary Services ("Porta-potty") be used on the site? Reference Table 1 Item F 	⊠Yes	□No		

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Table 1. Construction Storm Water BMP Checklist

Minimum Required Best Management Practices (BMPs)	CALTRANS SW Handbook ⁴ Detail or County Std. Detail	BMP Selected	Reference sheet No.'s where each selected BMP is shown on the plans. If no BMP is selected, an explanation must be provided.
 A. Select Erosion Control Method season) 	d for Disturbed S	Slopes (choos	se at least one for the appropriate
Vegetation Stabilization Planting ⁵ (Summer)	SS-2, SS-4		
Hydraulic Stabilization Hydroseeding ² (Summer)	SS-4	⊠	
Bonded Fiber Matrix or Stabilized Fiber Matrix ⁶ (Winter)	SS-3	⊠	
Physical Stabilization Erosion Control Blanket ³ (Winter)	SS-7	⊠	
B. Select erosion control method	for disturbed fla	at areas (slop	e < 5%) (choose at least one)
County Standard Lot Perimeter Protection Detail	PDS 659', SC-2	Ø	,,
Will use erosion control measures from Item A on flat areas also	SS-3, 4, 7		
County Standard Desilting Basin (must treat all site runoff)	PDS 660 ⁸ , SC-2	⊠	
Mulch, straw, wood chips, soil application	SS-6, SS-8	⊠	

State of California Department of Transportation (Caltrans). 2003. Storm Water Quality Handbooks, Construction Site Best Management Practices (BMPs) Manual. March. Available online at: http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm.

If Vegetation Stabilization (Planting or Hydroseeding) is proposed for erosion control it may be installed between May 1st and August 15th. Slope irrigation is in place and needs to be operable for slopes >3 feet. Vegetation must be watered and established prior to October 1st. The owner must implement a contingency physical BMP by August 15th if vegetation establishment does not occur by that date. If landscaping is proposed, erosion control measures must also be used while landscaping is being established. Established vegetation must have a subsurface mat of intertwined mature roots with a uniform vegetative coverage of 70 percent of the natural vegetative coverage or more on all disturbed areas.

All slopes over three feet must have established vegetative cover prior to final permit approval.

County of San Diego, Planning & Development Services. 2012. Standard Lot Perimeter Protection Design System. Building Division. PDS 659. Available online at http://www.sandiegoccounty.gov/pds/docs/pds659.pdf.

System: Building Division, PDS 659, Available online at http://www.sandiegocounty.gov/pds/docs/pds659.pdf.

County of San Diego, Planning & Development Services, 2012. County Standard Desilting Basin for Disturbed Areas of 1 Acre or Less Building Division. PDS 659, Available online at http://www.sandiegocounty.gov/pds/docs/pds660.pdf.

Table 1. Construction Storm Water BMP Checklist (continued)

	CALTRANS		Reference sheet No.'s where each			
	SW Handbook		selected BMP is shown on the			
Minimum Required	Detail or	~	plans.			
Best Management Practices	County Std.	BMP	If no BMP is selected, an			
(BMPs)	Detail	Selected	explanation must be provided.			
C. If runoff or dewatering operation is concentrated, velocity must be controlled using an energy						
dissipater	·					
Energy Dissipater Outlet Protection ⁹	SS-10					
D. Select sediment control methor		ed areas (cho	oose at least one)			
Silt Fence	SC-1	×				
Fiber Rolls (Straw Wattles)	SC-5	×				
Gravel & Sand Bags	SC-6 & 8	⊠:				
Dewatering Filtration	NS-2	523				
Storm Drain Inlet Protection	SC-10	×	· ·			
Engineered Desilting Basin	SC-2	Ø				
(sized for 10-year flow)						
E. Select method for preventing		f sediment (d	choose at least one)			
Stabilized Construction Entrance	TC-1	X				
Construction Road Stabilization	TC-2	. 🗵				
Entrance/Exit Tire Wash	TC-3		,			
Entrance/Exit Inspection &	TC-1					
Cleaning Facility						
Street Sweeping and Vacuuming	SC-7	这				
F. Soloat the general site manag	ement BMPs					
F.1 Materials Management	1128 + -2	·				
Material Delivery & Storage	WM-1	×				
Spill Prevention and Control	WM-4	⊠				
F.2 Waste Management ¹⁰						
Waste Management	WM-8	凶				
Concrete Waste Management	18/8 5	N° 13				
Solid Waste Management	WM-5	<u> </u>				
Sanitary Waste Management	WM-9	☒				
Hazardous Waste Management	WM-6	>				

Note: The Construction General Permit (Order No. 2009-0009-DWQ) also requires all projects not subject to the BMP Design Manual to comply with runoff reduction requirements through the implementation of post-construction BMPs as described in Section XIII of the order.

Regional Standard Drawing D-40 – Rip Rap Energy Dissipater is also acceptable for velocity reduction.
 Not all projects will have every waste identified. The applicant is responsible for identifying wastes that will be onsite and applying the appropriate BMP. For example, if concrete will be used, BMP WM-8 must be selected.

Step 3: County of San Diego PDP SWQMP Site Information Checklist

Step 3.1: Description of Existing Site Condition

Project Watershed (Complete Hydrologic Unit, Area, and Subarea Name with Numeric Identifier)	Carlsbad (904), Escondido Creek (904.6), Escondido (904.62)
Current Status of the Site (select all that apply	·/):
☐ Existing development	
□ Previously graded but not built out	
☐ Demolition completed without new const	ruction
□ Agricultural or other non-impervious use	
∀acant, undeveloped/natural	
Description / Additional Information:	andly and municiple and area an aitaly
Existing Land Cover Includes (select all that a ⊠ Vegetative Cover 111.02 Acres (18,444,	
□ Non-Vegetated Pervious Areas _ Acres	
☐ Non-vegetated Pervious Areas _ Acres ☐ Impervious Areas <u>0.06</u> Acres (<u>2,614</u> Sq	— · · · · · · · · · · · · · · · · · · ·
Impervious Areas <u>0.00</u> Acres (<u>2,014</u> 30	uale Feet)
Description / Additional Information:	
Underlying Soil belongs to Hydrologic Soil Gr	oup (select all that apply):
□ NRCS Type B	
⊠ NRCS Type D	
Approximate Depth to Groundwater (GW) (or	N/A if no infiltration is used):
☐ GW Depth < 5 feet	
☐ 5 feet < GW Depth < 10 feet	
☑ 10 feet < GW Depth < 20 feet	
☐ GW Depth > 20 feet	Hall at 12
Existing Natural Hydrologic Features (select a ⊠ Watercourses	all that apply):
☐ Seeps	
□ Springs □ Wetlands	
☐ None	
☐ Other Description / Additional Information:	
•	gh the southwest portion of the project boundary.
	feet. These were identified by Helix Environmental
	rs of the state are included in the project EIR and
	nticipated for this project during final engineering.
,	on 2.3 in the EIR and EIR Tables 2.3-1, 2.3-2 and
2.3-3.	

Step 3.2: Description of Existing Site Drainage Patterns

How is storm water runoff conveyed from the site? At a minimum, this description should answer:

- (1) Whether existing drainage conveyance is natural or urban;
- (2) Is runoff from offsite conveyed through the site? if yes, quantify all offsite drainage areas, design flows, and locations where offsite flows enter the project site, and summarize how such flows are conveyed through the site;
- (3) Provide details regarding existing project site drainage conveyance network, including any existing storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural or constructed channels; and
- (4) Identify all discharge locations from the existing project site along with a summary of conveyance system size and capacity for each of the discharge locations. Provide summary of the pre-project drainage areas and design flows to each of the existing runoff discharge locations.

Describe existing site drainage patterns:

- Existing drainage is natural.
- 2) There is offsite runoff that originates on the northeast and east side of the project boundary. There is also offsite runoff that is coming from the south side of the project boundary. Flows are conveyed through the site along the valley via natural drainage course.
- 3) There are no existing storm drain facilities within the project site area. There was a previous natural drainage course that flowed through the central portion of the site, however due to prior agricultural operations, this drainage has been disturbed.
- 4) In existing conditions, the project site has four drainage areas that each discharge into Escondido Creek.¹¹ The first drainage area is located in the northeast corner of the property boundary that originates offsite and drains to Escondido Creek to the north. The second drainage area comprises the majority of the site, originating on the east side of the property boundary draining through the main valley of the project, with runoff flowing northerly along the east end side of Country Club Drive and eventually draining into Escondido Creek. The third and fourth drainage areas are small and are located at the southwestern corner of the project site, each originate both on and offsite, and drain west towards a defined drainage along the western project boundary. This defined drainage area traverses the existing residential properties west of Cordrey Drive and ultimately flows into Escondido Creek downstream and west of the Country Club Drive crossing.

¹¹ Refer to the overall drainage map in the Drainage Study in Attachment 6.

Step 3.3: Description of Proposed Site Development

Project Description / Proposed Land Use and/or Activities:

The project proposes a residential subdivision development on an approximately 111 acre site with a maximum of 453 dwelling units, a commercial/civic area; that may accommodate such uses as food/beverage service, limited overnight accommodations, a gym, event lawn, and possibly a pool/spa area. The project also reserves space for wastewater treatment uses that may be needed in support of the development.

List/describe proposed impervious features of the project (e.g., buildings, roadways, parking lots, courtyards, athletic courts, other impervious features):

The impervious features will consist of homes, buildings, parking lots, driveways, public and private streets, gutters, sidewalks, and courtyard areas.

List/describe proposed pervious features of the project (e.g., landscape areas):

The pervious features of the project will include biological open space preserves, naturalized open space, landscaped areas, parks, and multi-use trails/pathways.

Does the project include grading and changes to site topography	Does the project	include grading	and changes	to site	topography
---	------------------	-----------------	-------------	---------	------------

⊠Yes

□No

Description / Additional Information:

Grading and changes to site topography will occur, however the project grading will be designed to fit into the existing landform.

Insert acreage or square feet for the different land cover types in the table below:

Change in L	and Cover Typ	e Summary	
Land Cover Type	Existing (acres)	Proposed (acres)	Percent Change
Vegetation	111.02	31.4	62%
Pervious (non-vegetated)	0.00	27.6	100
Impervious	0.06	38.0	34%

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Step 3.4: Description of Proposed Site Drainage Patterns

Does the project include changes to site drainage (e.g., installation of new storm water conveyance systems)?

⊠Yes

□No

If yes, provide details regarding the proposed project site drainage conveyance network, including storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural or constructed channels, and the method for conveying offsite flows through or around the proposed project site. Identify all discharge locations from the proposed project site along with a summary of the conveyance system size and capacity for each of the discharge locations. Provide a summary of pre- and post-project drainage areas and design flows to each of the runoff discharge locations. Reference the drainage study for detailed calculations.

Describe proposed site drainage patterns:

A natural drainage that used to flow through the central portion of the site, which has since been disturbed by prior agricultural operations, has been recreated and incorporated into the site plan as a naturalized open space area with a meandering swale, trails and adjacent community gardens. This vegetated swale will carry surface drainage from adjacent slopes and units along its alignment and convey it to a proposed storm drain system. The onsite drainage improvements consist of public and private streets, gutters, and curb inlets that will tie into a proposed underground storm drain system. The discharge points in the proposed conditions will be the same as the existing conditions in that the runoff will discharge north to Escondido Creek and west to the defined drainage along the western project boundary.

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Step 3.5: Potential Pollutant Source Areas

Identify whether any of the following features, activities, and/or popresent (select all that apply). Select "Other" if the project is a phala description: On-site storm drain inlets Interior floor drains and elevator shaft sump pumps Interior parking garages Need for future indoor & structural pest control Landscape/Outdoor Pesticide Use Pools, spas, ponds, decorative fountains, and other water feating Food service Refuse areas Industrial processes Outdoor storage of equipment or materials Vehicle and Equipment Cleaning Vehicle/Equipment Repair and Maintenance Fuel Dispensing Areas Loading Docks Fire Sprinkler Test Water Miscellaneous Drain or Wash Water Plazas, sidewalks, and parking lots Other (provide description) Description / Additional Information:	sed development and provide
Description / Additional Information:	

Step 3.6: Identification and Narrative of Receiving Water and Pollutants of Concern

Describe flow path of storm water from the project site discharge location(s), through urban storm conveyance systems as applicable, to receiving creeks, rivers, and lagoons as applicable, and ultimate discharge to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable):

Drainage that discharges into Horse Ranch Creek eventually confluences with the San Luis Rey River located south of the SR-76. The runoff then travels southwesterly entering the Pacific Ocean in the City of Oceanside.

List any 303(d) impaired water bodies 12 within the path of storm water from the project site to the Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable), identify the pollutant(s)/stressor(s) causing impairment, and identify any TMDLs and/or Highest Priority Pollutants from the WQIP for the impaired water bodies;

303(d) Impaired Water Body	Pollutant(s)/Stressor(s)	TMDLs / WQIP Highest Priority Pollutant		
Escondido Creek	Dichlorodiphenyltrichloroethan e (DDT), enterococcus, fecal coliform, manganese, phosphate, selenium, sulfates, total dissolved solids (TDS), total nitrogen (N), and toxicity.	DDT, Enterococcus, fecal coliform, manganese, phosphates, selenium, sulfates, TDS, total nitrogen, and toxicity		
San Elijo Lagoon	Eutrophic, indicator bacteria, sedimentation/siltation	Nutrients, sedimentation		
Pacific Ocean Shoreline	Total Coliform	Bacteria Impairments		

Identification of Project Site Pollutants*

Identify pollutants expected from the project site based on all proposed use(s) of the site (see BMP Design Manual Appendix B.6):

Pollutant	Not Applicable to the Project Site	Anticipated from the Project Site	Also a Receiving Water Pollutant of Concern
Sediment		⊠	\boxtimes
Nutrients		⋈	⊠
Heavy Metals		⋈	⊠
Organic Compounds		⊠	⊠
Trash & Debris		⊠	
Oxygen Demanding Substances		⋈	

The current list of Section 303(d) impaired water bodies can be found at http://www.waterboards.ca.gov/water_issues/programs/water_quality_assessment/#impaired

^{*}Identification of project site pollutants below is only required if flow-thru treatment BMPs are implemented onsite in lieu of retention or biofiltration BMPs. Note the project must also participate in an alternative compliance program (unless prior lawful approval to meet earlier PDP requirements is demonstrated).

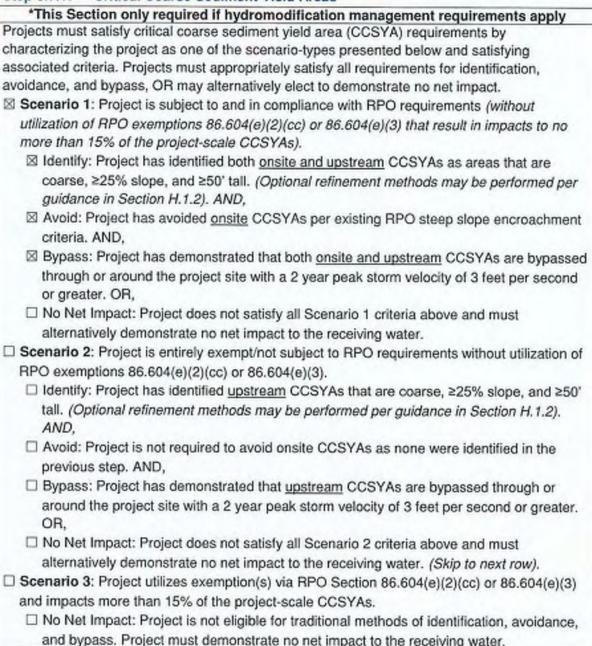
Oil & Grease	⊠	
Bacteria & Viruses	⊠	⊠
Pesticides		

Step 3.7: Hydromodification Ma	nagement Requirements
Do hydromodification management require Manual)?	ments apply (see Section 1.6 of the BMP Design
	quirements for flow control and preservation of critical ble.
	ctly to existing underground storm drains discharging s, enclosed embayments, or the Pacific Ocean.
	ctly to conveyance channels whose bed and bank are of discharge to water storage reservoirs, lakes, cean.
	ctly to an area identified as appropriate for an
Description / Additional Information (to be p	provided if a 'No' answer has been selected above):
Yes. Refer to the separate Hydromodification	on Study prepared by Project Design Consultants.

The Watershed Management Area Analysis (WMAA) is an optional element for inclusion in the Water Quality Improvement Plans (WQIPs) described in the 2013 MS4 Permit [Provision B.3.b.(4)]. It is available online at the Project Clean Water website:

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Step 3.7.1: Critical Coarse Sediment Yield Areas*



NOTE: Refer to Page 16 for further explanation of CCSYA requirements.

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Critical Coarse Sediment Yield Areas Continued
Demonstrate No Net Impact
If the project elects to satisfy CCSYA criteria through demonstration of no net impact to the receiving water. Applicants must identify the methods utilized from the list below and provide supporting documentation in Attachment 2c of the SWQMP. Check all that are applicable. N/A, the project appropriately identifies, avoids, and bypasses CCSYAs.
□ Project has performed additional analysis to demonstrate that impacts to CCSYAs satisfy the no net impact standard of Ep/Sp≤1.1.
□ Project has provided alternate mapping of CCSYAs.
☐ Project has implemented additional onsite hydromodification flow control measures.
☐ Project has implemented an offsite stream rehabilitation project to offset impacts.
☐ Project has implemented other applicant-proposed mitigation measures.
Step 3.7.2: Flow Control for Post-Project Runoff*
*This Section only required if hydromodification management requirements apply List and describe point(s) of compliance (POCs) for flow control for hydromodification management (see Section 6.3.1). For each POC, provide a POC identification name or number correlating to the project's HMP Exhibit and a receiving channel identification name or number correlating to the project's HMP Exhibit.
There will be two POCs for the hydrologic analysis. POC#1 will represent the north drainage area and POC#2 will represent the south drainage area. A Hydromodification Study was prepared by Project Design Consultants and is provided in a separate cover.
Has a geomorphic assessment been performed for the receiving channel(s)?
□ No, the low flow threshold is 0.1Q2 (default low flow threshold)
☐ Yes, the result is the low flow threshold is 0.1Q2 ☐ Yes, the result is the low flow threshold is 0.3Q2
Yes, the result is the low flow threshold is 0.5Q2
23 Tes, the result is the low flow threshold is 0.5Q2
If a geomorphic assessment has been performed, provide title, date, and preparer:
A project geomorphic channel assessment analysis was completed by Chang Consultants for this project under a separate cover.
Discussion / Additional Information: (optional)

Step 3.8: Other Site Requirements and Constraints

When applicable, list other site requirements or constraints that will influence storm water management design, such as zoning requirements including setbacks and open space, or local codes governing minimum street width, sidewalk construction, allowable pavement types, and drainage requirements.

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Optional Additional Information or Continuation of Previous Sections As Needed

This space provided for additional information or continuation of information from previous sections as needed.

The following steps were used to document compliance with CCSYA requirements:

Step 1: Identify CCSYAs

The project falls within Scenario 1 as outlined in the County BMP Design Manual Appendix H.1. The County RPO Method was used instead of the WMAA method to identify PCCSYAs. Refer to Attachment 2c for the Resource Protection Study Steep Slope Waiver for Harmony Grove Village South Project (prepared by Helix Environmental Planning, dated July 2015). Per Section H.1.2.1, a depositional analysis was performed to refine the PCCSYAs and remove the PCCSYAs from the northern watershed of the project due to the existing sediment deposition at the northerly end of the project (before runoff enters Escondido Creek). Following the detailed guidance in Section H.7.1, the peak 2 year velocity at Section B-B is less than 3 feet per second. Section B-B represents the flow condition prior to discharging to any downstream unlined waters of the state. Refer to the supporting exhibit and calculations in Attachment 2c. The steep slopes identified in the RPO Study were refined to include only the RPO slopes as a part of the southern watershed as the northerly watershed PCCSYAs are not CCSYAs due to deposition prior to reaching any waters of the state.

Step 2: Avoidance of Onsité CCSYAs

Per Section H.2.1.1, avoidance of the CCSYAs was established using the encroachment <15% criterion. An exhibit created by Project Design Consultants is also located in Attachment 2c which shows the CCSYA impacted by the grading of HGVS. The overall CCSYA within the project boundary is 12.23 acres, while the CCSYA impacted by the project is 1.38 acres. The overall project impacted CCSYA draining towards waters of the state is 11%, which is less than the 15% threshold requiring CCSYA mitigation measures.

Step 3: Per Section H.3.2, no action is required to ensure bypass of channel flows. Upstream CCSYAs will continue to flow downstream to the westerly discharge point.

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Step 4:

Source Control BMP Checklist Source Control BMPs All development projects must implement source control BMPs 4.2.1 through 4.2.6 where applicable and feasible. See Chapter 4.2 and Appendix E of the County BMP Design Manual for information to implement source control BMPs shown in this checklist. Answer each category below pursuant to the following: "Yes" means the project will implement the source control BMP as described in Chapter 4.2 and/or Appendix E of the County BMP Design Manual. Discussion / justification is not required. "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided. "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project has no outdoor materials storage areas). Discussion / justification must be provided. Source Control Requirement Applied? 4.2.1 Prevention of Illicit Discharges into the MS4 ⊠Yes □No □N/A Discussion / justification if 4.2.1 not implemented: 4.2.2 Storm Drain Stenciling or Signage ⊠Yes □No □N/A Discussion / justification if 4.2.2 not implemented: 4.2.3 Protect Outdoor Materials Storage Areas from Rainfall, □Yes ⊠No □N/A Run-On, Runoff, and Wind Dispersal Discussion / justification if 4.2.3 not implemented: If outdoor storage is added by individual homeowners or as part of the community center or community garden area, it shall be designed to protect water quality as required by the County SUSMP for Land Development. 4.2.4 Protect Materials Stored in Outdoor Work Areas from ⊠Yes □No ⊠N/A Rainfall, Run-On, Runoff, and Wind Dispersal Discussion / justification if 4.2.4 not implemented:

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Applied?		
□N/A		
.i		
□N/A		
⊠N/A		
□N/A		
□N/A		
□N/A		
⊠N/A		
□N/A		
⊠N/A		
□N/A		
□N/A		
□N/A		
noff		
bove.		

Note: Show all source control measures described above that are included in design capture volume calculations in the plan sheets of Attachment 5.

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Step 5: Site Design BMP Checklist

Site Design BMPs

All development projects must implement site design BMPs SD-A through SD-H where applicable and feasible. See Chapter 4.3 and Appendix E of the County BMP Design Manual for information to implement site design BMPs shown in this checklist.

Answer each category below pursuant to the following:

- "Yes" means the project will implement the site design BMP as described in Chapter 4.3 and/or Appendix E of the County BMP Design Manual. Discussion / justification is not required.
- "No" means the BMP is applicable to the project but it is not feasible to implement.
 Discussion / justification must be provided.
- "N/A" means the BMP is not applicable at the project site because the project does not
 include the feature that is addressed by the BMP (e.g., the project site has no existing
 natural areas to conserve). Discussion / justification must be provided.

Site Design Requirement		Applied?		
4.3.1 Maintain Natural Drainage Pathways and Hydrologic Features	⊠Yes	□No	□N/A	
Discussion / justification if 4.3.1 not implemented:				
4.3.2 Conserve Natural Areas, Soils, and Vegetation	⊠Yes	□No	□N/A	
Discussion / justification if 4.3.2 not implemented:				
4.3.3 Minimize Impervious Area	⊠Yes	□No	□N/A	
Discussion / justification if 4.3.3 not implemented:				
4.3.4 Minimize Soil Compaction	⊠Yes	□No	□N/A	
Discussion / justification if 4.3.4 not implemented:				
4.3.5 Impervious Area Dispersion	⊠Yes	□No	□N/A	
Discussion / justification if 4.3.5 not implemented:				
Impervious area dispersion SD-5 to reduce the DCV cannot is be enough room to meet the 10' minimum trail/pathway width	oe implemente	ed as ther	e would no	

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Site Design Requirement		Applied?			
4.3.6 Runoff Collection	□Yes	□No	⊠N/A		
Discussion / justification if 4.3.6 not implemented:	t		1		
Green roofs, small subcatchments for lots, and permeable pavers are not proposed for HGVS. The project's overall strategy for harvest and reuse is more effective than these other smaller-scale controls.					
4.3.7 Landscaping with Native or Drought Tolerant Species	⊠Yes	□No	□N/A		
Discussion / justification if 4.3.7 not implemented:					
All slopes disturbed by construction activities shall be revegetated and stabilized as soon as possible. The permanent vegetation will be drought tolerant.					
4.3.8 Harvesting and Using Precipitation	⊠Yes	□No	□N/A		
Discussion / justification if 4.3.8 not implemented:					
A harvest/reuse storage volume component will be an additional feature of the proposed combination detention/hydromodification basins.					

Note: Show all site design measures described above that are included in design capture volume calculations in the plan sheets of Attachment 5.

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Step 6: PDP Structural BMPs

All PDPs must implement structural BMPs for storm water pollutant control (see Chapter 5 of the BMP Design Manual). Selection of PDP structural BMPs for storm water pollutant control must be based on the selection process described in Chapter 5. PDPs subject to hydromodification management requirements must also implement structural BMPs for flow control for hydromodification management (see Chapter 6 of the BMP Design Manual). Both storm water pollutant control and flow control for hydromodification management can be achieved within the same structural BMP(s).

PDP structural BMPs must be verified by the County at the completion of construction. This may include requiring the project owner or project owner's representative and engineer of record to certify construction of the structural BMPs (see Section 1.12 of the BMP Design Manual). PDP structural BMPs must be maintained into perpetuity, and the County must confirm the maintenance (see Section 7 of the BMP Design Manual).

Use this section to provide narrative description of the general strategy for structural BMP implementation at the project site in the box below. Then complete the PDP structural BMP summary information sheet (Step 6.2) for each structural BMP within the project (copy the BMP summary information sheet [Step 6.2] as many times as needed to provide summary information for each individual structural BMP).

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Step 6.1: Description of structural BMP strategy

Describe the general strategy for structural BMP implementation at the site. This information must describe how the steps for selecting and designing storm water pollutant control BMPs presented in Section 5.1 of the BMP Design Manual were followed, and the results (type of BMPs selected). For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate. At the end of this discussion provide a summary of all the structural BMPs within the project including the type and number.

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Refer to the Drainage Management Area (DMA) Exhibit in Attachment 1b for the four drainage areas in proposed conditions. There is a north drainage basin (DMA 1), a south drainage basin (DMA 2), and two drainage areas for a portion of Country Club Drive's street area (consisting of DMAs 3 and 4). The treatment for each of these basins is described below.

HGVS must comply with both hydromodification and pollutant control requirements. The development proposes addressing final HMP requirements by incorporating two detention/ hydromodification vaults for treatment of the north and south basins. Refer to the Hydromodification Exhibit in Attachment 2. There will be two discharge locations, one on the northwest corner of the project site (for DMA 1) and the southwest corner of the project site (for DMA 2). Defined drainage flows for the south discharge boundary are via defined drainage along the western property boundary. This defined drainage will traverse existing properties west of Cordrey Drive and flow into Escondido Creek.

In order to also comply with pollutant control requirements, these two basins will serve dual purposes. The lower portion of the vaults will accommodate harvest and reuse (HU-1) storage areas. The water quality volume held in the lower portion of the underground vaults will be pumped into the project's wet weather storage facility for the purple pipe system owned by the Rincon Del Diablo Water District. In order to maximize the water reuse, offsite areas will commingle with onsite runoff. Refer to Attachment 2a for the hydromodification and harvest and reuse calculations. In the event HGVS is unable to gain approval for stormwater use in the recycled system during final engineering, the project will instead construct a storm water BMP system consisting of a system of biofiltration basins (BF-1) within the project graded footprint.

The remaining area (DMA 3 and 4) to be treated onsite is a small portion of runoff generated by the street on Country Club Drive. Since HGVS will be utilizing harvest and reuse to treat most of the site's runoff, an infiltration condition analysis is not required. If required for the project, an infiltration assessment will be completed during final engineering. Additionally, the geotechnical engineer did not recommend infiltration type BMPs for the detention basins due to the site being underlain by compacted fill or dense granitic bedrock. Refer to HGVS Geotechnical Study prepared by Geocon Incorporated in Attachment 7.

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Description of structural BMP strategy continued
(Page reserved for continuation of description of general strategy for structural BMP implementation at the site)

(Continued from previous page)

It was determined the street runoff from Country Club Drive will be treated by two proprietary biofiltration (BF-3) BMPs. The placement of the proposed proprietary biofiltration BMPs will be located at the low-point of Country Club Drive (north of the proposed bridge), where two proposed inlets will be placed on either sides of the roadway. The location of the proposed inlets is in an area with limited space available for a biofiltration basin (BF-1). It was determined biofiltration basins would not be feasible considering the space restrictions and the proximity of the low point to the adjacent Escondide Creek and the bridge. (A biofiltration basin would interfere with the design of the bridge abutment). Therefore, two proprietary blofiltration BMPs (Bioclean Modular Wetland units), were selected for treatment of the street runoff. The modular units have a small footprint; thus incorporating these units into the roadway design would also reduce the likelihood of any utility conflicts. Under proposed grading conditions, runoff will drain northerly towards these two proposed inlets via the public road curb and gutter. These treatment units will serve to treat the two northerly tributary drainage areas of Country Club Drive before discharging directly into Escondido Creek. Hydromodification requirements for the runoff generated by County Club Drive (DMAs 3 and 4) are addressed as these were modeled as a bypass drainage basin (Basin #3) for the northern drainage basin as outlined in the Hydromodification Management Report (refer to Attachment 2a and 2b). The treated runoff from Country Club Drive will outfall into the same POC (POC#1) as the northern drainage basin. (The two storm drain outfalls are close enough together that they can be considered one POC from a hydromodification perspective.) Refer to Attachment 1a for the BMP Worksheets for the proposed modular wetland BMPs. In order to satisfy the retention requirements, seven tree wells are proposed to be incorporated into the design, three for DMA 3 and four for DMA 4.

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Step 6.2: Structural BMP Checklist

Structural BMP ID No. MWS (Modular Wetland Unit) #1		
Construction Plan Sheet No.		
Type of structural BMP:		
☐ Retention by harvest and use (HU-1)		
☐ Retention by infiltration basin (INF-1)		
☐ Retention by bioretention (INF-2)		
☐ Retention by permeable pavement (INF-3)		
Partial retention by biofiltration with partial retention (PR-1)		
☐ Biofiltration (BF-1)		
☐ Biofiltration with Nutrient Sensitive Media Des		
☑ Proprietary Biofiltration (BF-3) meeting all red	quirements of Appendix F	
☐ Flow-thru treatment control with prior lawful a	pproval to meet earlier PDP requirements	
(provide BMP type/description in discussion section below)		
☐ Flow-thru treatment control included as pre-tr	reatment/forebay for an onsite retention or	
biofiltration BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below)		
□ Flow-thru treatment control with alternative compliance (provide BMP type/description in		
discussion section below)		
□ Detention pond or vault for hydromodification management		
☐ Other (describe in discussion section below)		
Purpose: Pollutant control only Hydromodification control only		
Combined pollutant control and hydromodific	E ANNE DE LE PROPRIÉT DE LA CONTRACTION DEL CONTRACTION DE LA CONT	
Pre-treatment/forebay for another structural E	SMP	
☐ Other (describe in discussion section below)		
Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification forms (See Section 1.12 of the BMP Design Manual)	TBD during Final Engineering	
Who will be the final owner of this BMP?	☐ HOA ☐ Property Owner ☒ County ☐ Other (describe)	
Who will maintain this BMP into perpetuity?	☐ HOA ☐ Property Owner ☒ County ☐ Other (describe) County via CFD	
What Category (1-4) is the Structural BMP? Refer to the Category definitions in Section 7.3 of the BMP DM. Attach the appropriate maintenance agreement in Attachment 3.	Category 4.	
Discussion (as needed):		
Will be treating the bypass drainage area of Country Club Drive.		

Structural BMP ID No. MWS (Modular Wetland Unit) #2		
Construction Plan Sheet No.		
Type of structural BMP:		
☐ Retention by harvest and use (HU-1)		
☐ Retention by infiltration basin (INF-1)		
☐ Retention by bioretention (INF-2)	·	
☐ Retention by permeable pavement (INF-3)		
☐ Partial retention by biofiltration with partial retention (PR-1)		
☐ Biofiltration (BF-1)		
☐ Biofiltration with Nutrient Sensitive Media Design (BF-2)		
Proprietary Biofiltration (BF-3) meeting all req	uirements of Appendix F	
☐ Flow-thru treatment control with prior lawful a	pproval to meet earlier PDP requirements	
(provide BMP type/description in discussion s		
☐ Flow-thru treatment control included as pre-tr		
biofiltration BMP (provide BMP type/description		
biofiltration BMP it serves in discussion section below)		
☐ Flow-thru treatment control with alternative compliance (provide BMP type/description in		
discussion section below)		
Detention pond or vault for hydromodification management		
Other (describe In discussion section below)		
Purpose:		
☐ Pollutant control only		
☐ Hydromodification control only		
☐ Combined pollutant control and hydromodification	ation control	
☐ Pre-treatment/forebay for another structural E	· · · · · · · · · · · · · · · · · · ·	
Other (describe in discussion section below)	NAT.	
Who will certify construction of this BMP?		
Provide name and contact information for the	TBD during Final Engineering	
party responsible to sign BMP verification		
forms (See Section 1.12 of the BMP Design		
Manual)		
Who will be the final owner of this BMP?	☐ HOA ☐ Property Owner ☒ County	
LII 191	☐ Other (describe)	
Who will maintain this BMP into perpetuity?	☐ HOA ☐ Property Owner ☒ County	
	☐ Other (describe) School or CFD	
What Category (1-4) is the Structural BMP?		
Refer to the Category definitions in Section 7.3	Category 4	
of the BMP DM. Attach the appropriate maintenance agreement in Attachment 3.		
Discussion (as needed):		
memorphic (main 1 the biblic by);		
Will be treating the bypass drainage area of Country Club Drive.		
· · · · · · · · · · · · · · · · · · ·	•	
•	•	

Structural BMP ID No. North (Hydromodification	n/Detention) Basin Vault	
Construction Plan Sheet No.		
Type of structural BMP:		
☐ Retention by harvest and use (HU-1)		
☐ Retention by infiltration basin (INF-1)		
☐ Retention by bioretention (INF-2)		
Retention by permeable pavement (INF-3)		
☐ Partial retention by biofiltration with partial retention (PR-1)		
□ Biofiltration (BF-1)		
☐ Biofiltration with Nutrient Sensitive Media Des	ign (BF-2)	
☐ Proprietary Biofiltration (BF-3) meeting all req		
☐ Flow-thru treatment control with prior lawful a		
(provide BMP type/description in discussion s		
☐ Flow-thru treatment control included as pre-tre	,	
biofiltration BMP (provide BMP type/description		
biofiltration BMP it serves in discussion section below)		
☐ Flow-thru treatment control with alternative compliance (provide BMP type/description in		
discussion section below)		
☐ Detention pond or vault for hydromodification	management	
☐ Other (describe in discussion section below)		
Purpose:		
Poliutant control only		
☐ Hydromodification control only		
Combined pollutant control and hydromodifica	1	
Pre-treatment/forebay for another structural E	IMP	
☑ Other (describe in discussion section below)		
Who will certify construction of this BMP?		
Provide name and contact information for the	TBD during Final Engineering	
party responsible to sign BMP verification forms (See Section 1.12 of the BMP Design	·	
Manual)		
Who will be the final owner of this BMP?	☑ HOA ☐ Property Owner ☐ County	
	☐ Other (describe)	
Who will maintain this BMP into perpetuity?		
The will make the sine and perpetated.	☐ Other (describe) County via CFD	
What Category (1-4) is the Structural BMP?	La Ogies (describe) County via Of B	
Refer to the Category definitions in Section 7.3	Category 2	
of the BMP DM. Attach the appropriate		
maintenance agreement in Attachment 3.		
Discussion (as needed):		
This large vault (modeled at 28,073 SF x 9.5' deep, 6.1 AF) serves dual purpose, to address		
hydromodification and pollutant control requirem		
store the water quality volume and discharge rul	Potents Attachment Objettle assessment	
combination with the onsite purple pipe system. Refer to Attachment 2 for the cross section of the north basin vault.		

Structural BMP ID No. South (Hydromedification	n/Detention) Basin Vault	
Construction Plan Sheet No.		
Type of structural BMP:		
☑ Retention by harvest and use (HU-1)		
☐ Retention by infiltration basin (INF-1)		
☐ Retention by bioretention (INF-2)		
☐ Retention by permeable pavement (INF-3)		
	ontion (DD 1)	
Partial retention by biofiltration with partial retention (PR-1)		
☐ Biofiltration (BF-1)		
☐ Biofiltration with Nutrient Sensitive Media Des		
☐ Proprietary Biofiltration (BF-3) meeting all req		
☐ Flow-thru treatment control with prior lawful a		
(provide BMP type/description in discussion s		
☐ Flow-thru treatment control included as pre-tr	eatment/forebay for an onsite retention or	
biofiltration BMP (provide BMP type/description		
biofiltration BMP it serves in discussion section		
☐ Flow-thru treatment control with alternative compliance (provide BMP type/description in		
discussion section below)		
☐ Detention pond or vault for hydromodification management		
Other (describe in discussion section below)		
,		
Purpose:		
☐ Pollutant control only		
☐ Hydromodification control only		
□ Combined pollutant control and hydromodification	etion control	
☐ Pre-treatment/forebay for another structural E	. I	
☑ Other (describe in discussion section below)	7,741.	
Who will certify construction of this BMP?		
Provide name and contact information for the	TOD during Final Engineering	
party responsible to sign BMP verification	TBD during Final Engineering	
forms (See Section 1.12 of the BMP Design		
Manual)		
Who will be the final owner of this BMP?		
THIS WAI DO THO WHAT OWNER OF THIS DIM!		
Who will as sinking this 1340 lake a south to 2	Other (describe)	
Who will maintain this BMP into perpetuity?	☑ HOA ☐ Property Owner ☐ County	
	☐ Other (describe) County via CFD	
What Category (1-4) is the Structural BMP?	_	
Refer to the Category definitions in Section 7.3	Category 2	
of the BMP DM. Attach the appropriate		
maintenance agreement in Attachment 3.		
Discussion (as needed):		
Phys. 1 (C. C. P. M. C. L. Art. of L. Art. o		
This small vault (modeled at 10,340 SF x 7.5' deep, 1.8 AF) serves dual purpose, to address		
hydromodification and pollutant control requirements. The lower portion of the vault will serve to store the water quality volume and discharge runoff into the harvest and reuse system in		
store the water quality volume and discharge rul	nor into the harvest and reuse system in	
combination with the onsite purple pipe system.	Herer to Attachment 2 for the cross section of	
the south basin vault.		

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Step 6.3: Offsite Alternative Compliance Participation Form

PDP INFORMATION	
Record ID:	N/A
Assessor's Parcel Number(s) [APN(s)]	
What are your PDP Pollutant Control Debits? *See Attachment 1 of the PDP SWQMP What are your PDP HMP Debits? (if applicable)	
*See Attachment 2 of the PDP SWQMP ACP Information	
Record ID:	
Assessor's Parcel Number(s) [APN(s)]	
Project Owner/Address	
What are your ACP Pollutant Control Credits? *See Attachment 1 of the ACP SWQMP	
What are your ACP HMP Debits? (if applicable) *See Attachment 2 of the ACP SWQMP	
ACCIONATE AND ACCIONATE ACCIONATE AND ACCIONATE ACCI	
Is your ACP in the same watershed as your PDP?	Will your ACP project be completed prior to the completion of the PDP?
☐ Yes	□ Yes
□ No	□ No
Does your ACP account for all Deficits generated by the PDP? Yes No (PDP and/or ACP must be redesigned to account for all deficits generated by the PDP.	What is the difference between your PDP debits and ACP Credits? *(ACP Credits -Total PDP Debits = Total Earned Credits)